

ABSTRACT

The present invention relates generally to a technical domain of a sliding element engaging a relative rotational motion. A primary objective of a sliding element of the present invention is to decrease a friction coefficient of the sliding face and to improve the seal performance. The element disposes dimples on at least one sliding face of a pair of relatively rotating sliding faces wherein the dimples are inclined towards a rotary direction when viewed along a radial direction. The sliding face of the sliding element also disposes a plurality of ring-formed dimple sections which form annuli of distinct diameters wherein the dimples are arranged along the individual annuli. The sliding face also disposes annular dam sections which are located between the individual dimple sections.